

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	03/28/2018 03/28/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0020_01_s _ 2013_9				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0020_01_s _ 2013_10				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 West Levee	Right	1.75	03/28/2018 03/28/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	11	
LM End		Issue Type +	Ma	Location *		
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_NA0020_01_s_2013_11					
Comment Code						
Inspector Comment						
The LMA completed flood fight training in 2016.						

No Photos

LM Start	0.51	Rating **	M	Issue No.	25
LM End	0.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.171392°	39.171317°
				-121.750478°	-121.744545°
DWR ID	DWR_ST0020_01_f_2016_25				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Olleanders are partially blocking visibility and access.					

No Photos

LM Start	0.62	Rating **	U	Issue No.	4
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171292 °	39.171232 °
				-121.748868 °	-121.748175 °
DWR ID	DWR_NA0020_01_s_2012_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the concrete ditch.					

Photo 1 of 2 : SP\_2018\_ST0020\_213\_4\_20180305\_00004.jpg



View the erosion along the concrete ditch.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 West Levee	Right	1.75	03/28/2018 03/28/2018	Bob Duffey

LM Start	0.62	Rating **	U	Issue No.	4 (cont)	
LM End	0.65	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.171292 °		39.171232 °
				-121.748868 °		-121.748175 °
DWR ID	DWR_NA0020_01_s_2012_4					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repair the erosion along the concrete ditch.						

Photo 2 of 2 : SP\_2018\_ST0020\_213\_4\_20180305\_00005.jpg



Another view the erosion along the concrete ditch.

LM Start	1.11	Rating **	M	Issue No.	18	
LM End	1.28	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			39.171283 °		39.171243 °
				-121.739315 °		-121.736312 °
DWR ID	DWR_ST0020_01_f_2016_18					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						

Photo 1 of 1 : SP\_2018\_ST0020\_213\_18\_20180305\_00012.jpg



View of the trees blocking visibility.

LM Start	1.33	Rating **	M	Issue No.	22
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171218 °	39.171218 °
				-121.735258 °	-121.735258 °
DWR ID	DWR_ST0020_01_f_2016_22				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_ST0020\_213\_22\_20180305\_00015.jpg



View of the erosion along the bank.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
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M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	03/28/2018 03/28/2018	Bob Duffey

LM Start	1.36	Rating **	M	Issue No.	24
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171220 °	39.171220 °
				-121.734730 °	-121.734730 °
DWR ID	DWR_ST0020_01_f_2016_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_ST0020\_213\_24\_20180305\_00016.jpg



View of the erosion along the bank.

LM Start	1.36	Rating **	M	Issue No.	8
LM End	1.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171188 °	39.171110 °
				-121.734652 °	-121.730225 °
DWR ID	DWR_ST0020_01_f_2017_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	03/28/2018 03/28/2018	Bob Duffey

LM Start	1.36	Rating **	M	Issue No.	13
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171188 °	39.171110 °
				-121.734652 °	-121.730225 °
DWR ID	DWR_ST0020_01_f_2017_13				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA needs to maintain the native grasses on both slopes.					

Photo 1 of 1 : SP\_2018\_ST0020\_213\_13\_20180403\_00023.jpg



View of the native grasses on both slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	03/29/2018 03/29/2018	Bob Duffey

LM Start	0.29	Rating **	M	Issue No.	31
LM End	0.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.171008 °	39.171008 °
				-121.721025 °	-121.721025 °
DWR ID	DWR_ST0020_02_f_2016_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_ST0020\_214\_31\_20180305\_00012.jpg



View of the overgrown trees blocking visibility and access.

LM Start	0.53	Rating **	M	Issue No.	28	
LM End	0.53	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.171028 °	39.171028 °	
				-121.716475 °	-121.716475 °	
DWR ID	DWR_ST0020_02_s_2016_28					
Comment Code						
DE : Debris						
Inspector Comment						
Tires and tree clippings on w/s crown.						

Photo 1 of 1 : SP\_2018\_ST0020\_214\_28\_20180305\_00011.jpg



View of the tires along the waterside berm.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	03/29/2018 03/29/2018	Bob Duffey

LM Start	0.54	Rating **	M	Issue No.	19
LM End	1.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171032 °	39.170853 °
				-121.716310 °	-121.701775 °
DWR ID	DWR_ST0020_02_f_2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the landside slope.					

Photo 1 of 2 : SP\_2018\_ST0020\_214\_19\_20180403\_00043.jpg



View of the vegetation along the landside slope.

LM Start	<b>0.54</b>	Rating **	M	Issue No.	<b>19 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_ST0020\_214\_19\_20180305\_00009.jpg



View of the vegetation along the landside slope.

LM Start	0.54	Rating **	M	Issue No.	20
LM End	1.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171032 °	39.170853 °
				-121.716310 °	-121.701775 °
DWR ID	DWR_ST0020_02_f_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation from the waterside slope.					

Photo 1 of 2 : SP\_2018\_ST0020\_214\_20\_20180403\_00044.jpg



View of the native vegetation on the waterside slope.

* Location		** Rating		+ Issue Type	
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WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	03/29/2018 03/29/2018	Bob Duffey

LM Start	0.54	Rating **	M	Issue No.	20 (cont)	
LM End	1.32	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.171032 °		39.170853 °
				-121.716310 °		-121.701775 °
DWR ID	DWR_ST0020_02_f_2017_20					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the vegetation from the waterside slope.						

Photo 2 of 2 : SP\_2018\_ST0020\_214\_20\_20180305\_00010.jpg



View of the native vegetation on the waterside slope.

LM Start	1.54	Rating **	M	Issue No.	4
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.170800 °	39.170732 °
				-121.698105 °	-121.689082 °
DWR ID	DWR_NA0020_02_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside slope.					

Photo 1 of 2 : SP\_2018\_ST0020\_214\_4\_20180305\_00003.jpg



View of the erosion along the waterside slope.

LM Start	<b>1.54</b>	Rating **	M	Issue No.	<b>4 (cont)</b>
LM End	<b>2.01</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_ST0020\_214\_4\_20180305\_00004.jpg



View of the erosion along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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